

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-7. (Cancelled)

~~8.~~ (Previously presented) An isolated polynucleotide sequence encoding a polypeptide comprising an anti-carcinoembryonic antigen (anti-CEA) antibody ("806.077 Ab") comprising complementarity determining regions (CDRs) in which the CDRs comprise the following sequences:

a) heavy chain

CDR1 DNYMH (SEQ ID NO: 29)

CDR2 WIDPENGDT E YAPKFRG (SEQ ID NO: 31)

CDR3 LIYAGYLAMD Y (SEQ ID NO: 32); and

b) light chain

CDR1 SASSSVTYMH (SEQ ID NO: 26)

CDR2 STSNLAS (SEQ ID NO: 27)

CDR3 QQRSTYPLT (SEQ ID NO: 28)

~~9.~~ (Previously presented) A vector comprising a polynucleotide as defined in claim ~~8~~, ~~20~~, ~~21~~, ~~22~~, ~~23~~ or ~~24~~.
1, 7, 8, 10, 9, 11
9, 10

2 ~~10~~. (Previously presented) A host cell transformed with a polynucleotide sequence as defined in claim ~~8~~.

11-15. (Cancelled)

3 ~~16~~. (Previously presented) A polynucleotide sequence encoding a polypeptide comprising an antibody conjugate comprising an antibody as defined in claim ~~8~~ and an effector moiety.

4 ~~17~~. (Previously presented) A vector comprising a polynucleotide sequence as defined in claim ~~16~~.

5 ~~18~~. (Previously presented) A host cell transformed with a polynucleotide sequence as defined in claim ~~16~~.

6 ~~19~~. (Currently amended) A method of making a conjugate as defined in claim ~~16~~, which comprises:

subjecting a host cell, ~~a transgenic non-human mammal or a transgenic plant as defined in claim 18~~ to conditions conducive to expression of the antibody conjugate.

7 ~~20~~. (Previously presented) A polynucleotide sequence encoding a polypeptide comprising an antibody as defined in claim ~~8~~, wherein the heavy chain CDRs 1 and 3 are further defined as:

CDR1 FNIKDNYMH (SEQ ID NO: 30); and

CDR3 HVLIYAGYLA MDY (SEQ ID NO: 33).

10/6/04

8. (Previously presented) A polynucleotide sequence
encoding a polypeptide comprising an antibody as defined in claim
1, said antibody comprising the following structure:

a heavy chain variable region sequence (SEQ ID NO:11)

EVQLQQSGAE LVRSGASVKL SCTASGFNIK DNYMHWVKQR 40

PEQGLEWIAW IDPENGDEY APKFRGKATL TADSSSNTAY 80

LHLSSLTSED TAVYYCHVLI YAGYLAMDYW GQGTSAVAVSS 120

and

a light chain variable region sequence (SEQ ID NO:9)

DIELTQSPAI MSASPGEKVT ITCSASSSVT YMHWFQKPG 40

TSPKLWIYST SNLASGVPAR FSGSGSGTSY SLTISRMEAE 80

DAATYYCQQR STYPLTFGAG TKLELKRA 108 •

10. (Previously presented) A polynucleotide sequence
encoding a polypeptide comprising a humanized antibody as defined
in claim 9, said antibody comprising at least one of the
following sequences:

a heavy chain variable region sequence which is VH1 (SEQ ID
NO:55);

a light chain variable region sequence which is VK4 (SEQ ID
NO:71);

a human CH1 heavy chain IgG3 constant region;

a human kappa light chain CL region; and

a human IgG3 hinge region.

9 ~~23~~¹⁸ (Previously presented) The polynucleotides sequence of claim ~~21~~¹⁸, wherein said antibody is a humanized antibody.

10 ~~24~~¹⁰ (Previously presented) The polynucleotide sequence of claim ~~22~~¹⁰, wherein said antibody is in the form of an f(ab')₂ fragment.